

ABSTRACT OF THE DISCLOSURE

In double-layer capacitor and rechargeable battery
5 electrochemical cell systems comprising opposed electrode
members of polymeric matrix composition having an interposed
electrically insulative, ion-conductive separator member
incorporating electrolyte solution, thermal lamination of the
electrode members to an interposed paper separator member to
10 form a unitary cell structure is enabled by initially providing
in the region of the separator/electrode interface, either
incorporated into the electrode composition or situated in the
separator member, a sufficient amount of a supplemental
plasticizer compatible with the electrode matrix polymer to
15 render at least the surface portion of the electrode composition
capable of adhesive flow under the selected conditions of
laminating heat and pressure. After lamination, a sufficient
amount of the supplemental plasticizer is removed, by
evaporation or selective extraction, to ensure against
20 delamination of the cell structure in the event of exposure to
vagrant heating.